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QC ABSTRACT

E OF WORK: Construction of Basavalingappa Samudaya Bhavana and Construction of Ambedkar an in Amruthahalli in ward no 07 (Call-7)

Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
	Materials				
Cement	Fineness by dry sieving	One Test		1	1
	Finess by Air permeablity method	One Test		1	1
	Density	One Test		1	1
	Standard Consistency	One Test		1	1
	Initial Setting time	One Test		1	1
	Final Setting time	One Test		1	1
	Soundness (Le Chatelier's Method)	One Test		1	1
	Compressive Strength	One Test		1	1
Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
	Flakiness Index	One Test		1	1
	Elongation Index	One Test		1	1
	Specific Gravity	One Test		1	1
	Bulk Density(Loose)	One Test		1	1
	Bulk Density(Compacted)	One Test		1	1
	Water Absorption	One Test		1	1
	Aggregate crushing Value	One Test		1	1
	Aggregate Impact Value	One Test		1	1
Fine aggregate	SIEVE ANALYSIS	One Test		1	1
	Water Absorption	One Test		1	1
	Specific Gravity	One Test		1	1
	Material finer than 75 micron	One Test		1	1
Steel	Bend test	One Test		1	1
	Tensile Test	One Test		1	1
	Yield Test	One Test		1	1
	ReBend test	One Test		1	1
Block(400*200*200)	BLOCK DENSITY	One Test		1	1
	WATER ABSORPTION	One Test		1	1
	DIMENSION ANALYSIS	One Test		1	1
	COMPRESSIVE STRENGTH	One Test		1	1
Block(400*150*200)	BLOCK DENSITY	One Test		1	1
	WATER ABSORPTION	One Test		1	1
	DIMENSION ANALYSIS	One Test		1	1
	COMPRESSIVE STRENGTH	One Test		1	1
Block(400*100*200)	BLOCK DENSITY	One Test		1	1
	WATER ABSORPTION	One Test		1	1
	DIMENSION ANALYSIS	One Test		1	1
	COMPRESSIVE STRENGTH	One Test		1	1
Brick	Compressive Strength	One Test		1	1
	WATER ABSORPTION	One Test		1	1
	EFFLORESCENCE	One Test		1	1
	DIMENSIONS AND TOLERANCES	One Test		1	1

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9	PCC(M15)	Compressive Strength(7days and 28days)	2 sets /6-15 cum	7.02	4	4
10	PCC(M15)	Compressive Strength(7days and 28days)	4 sets /31-50 cum	42.55	8	8
11	RCC(M25)	Compressive Strength(7days and 28days)	3 sets /16-30 cum	20.88	6	6
12	RCC(M25)	Compressive Strength(7days and 28days)	6 sets /100-150 cum	149.89	12	12
13	RCC(M25)	Compressive Strength(7days and 28days)	1 sets /1-5 cum	0.74	2	2
14	RCC(M25)	Compressive Strength(7days and 28days)	2 sets /6-15 cum	6.66	4	4
15	CERAMIC TILES	MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS	One Test		1	1
		MODULUS OF RUPTURE AND BREAKING STRENGTH	One Test		1	1
16	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
17	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
18	Structural Steel (Purlin RHS 100x 50 x 4th)	Weight/Meter	One Test		1	1
		Thickness	One Test		1	1
		Yeild Stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
		Bend Test	One Test		1	1

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2024-01-04-05 **Date: 12-11-22**

Project Name : Construction of Basavalingappa Samudaya Bhavana and Construction of Ambedkar Bhavan in Amruthahalli in ward no 07 (Call-7)

Agency : M/s Venkateshwara Asphalts and Concrete Mix, Prop. Umesh N, No:01, Ammaji Arcade, Bangaluru Circle, Hesaragahatta Main Road, Bengaluru 5600073

Customer's Reference : BBMP/EE/BTP/WO/66/2022-23

Date of Receipt : 09-11-22

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 269:2015 Ordinary Portland cement Specification ,
IS 4031 (Part 4,5):1988
IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability
IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6

Date of test : 10-11-22

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	Fineness by dry sieving (%)	1.75	_
2	Finess by Air permeablity method (m^2/kg,Min)	281.4	225m^2/kg, Min
3	Density (gm/cc)	3.14	_
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	285 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2024-01-04-05** **Date: 08-12-22**

Project Name : Construction of Basavalingappa Samudaya Bhavana and Construction of Ambedkar Bhavan in Amruthahalli in ward no 07 (Call-7)

Agency : M/s Venkateshwara Asphalts and Concrete Mix, Prop. Umesh N, No:01, Ammaji Arcade, Bangaluru Circle, Hesaragahatta Main Road, Bengaluru 5600073

Customer's Reference : BBMP/EE/BTP/WO/66/2022-23

Date of Receipt : 09-11-22

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 269:2015 Ordinary Portland cement Specification ,
IS 4031 (Part 4,5):1988 , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6

Date of test : 10-11-22

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 269:2015
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2024-01-04-05** **Date: 11-11-22**

Project Name : Construction of Basavalingappa Samudaya Bhavana and Construction of Ambedkar Bhavan in Amruthahalli in ward no 07 (Call-7)

Agency : M/s Venkateshwara Asphalts and Concrete Mix, Prop. Umesh N, No:01, Ammaji Arcade, Bangaluru Circle, Hesaragahatta Main Road, Bengaluru 5600073

Customer Reference : BBMP/EE/BTP/WO/66/2022-23

Date of Receipt : 09-11-22

Sample Type/ Size : 20mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 09-11-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	240	240	4.8	95.2	90-100
3	10 mm	2567	2807	56.1	43.9	25-55
4	4.75 mm	2030	4837	96.7	3.3	0-10
5	Pan	163	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2024-01-04-05 Date: 11-11-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.3	
3	Specific Gravity	2.65	-
4	Bulk Density(Loose) (Kg/l)	1.5	-
5	Bulk Density(Compacted) (Kg/l)	1.52	-
6	Water Absorption(%)	0.23	-
7	Aggregate crushing Value(%)	22.7	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	24.6	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2024-01-04-05 **Date: 11-11-22**

Project Name : Construction of Basavalingappa Samudaya Bhavana and Construction of Ambedkar Bhavan in Amruthahalli in ward no 07 (Call-7)

Agency : M/s Venkateshwara Asphalts and Concrete Mix, Prop. Umesh N, No:01, Ammaji Arcade, Bangaluru Circle, Hesaragahatta Main Road, Bengaluru 5600073

Customer's Reference : BBMP/EE/BTP/WO/66/2022-23

Date of Receipt : 09-11-22

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 09-11-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	78	78	7.8	92.2	90-100	90-100	90-100	95-100
3	2.36 mm	65	143	14.3	85.7	60-95	75-100	85-100	95-100
4	1.18 mm	244	387	38.7	61.3	30-70	55-90	75-100	90-100
5	600 micron	215	602	60.2	39.8	15-34	35-59	60-79	80-100
6	300 micron	178	780	78.0	22.0	5-20	8-30	12-40	15-50
7	150 micron	141	921	92.1	7.9	0-10	0-10	0-10	0-15
8	Pan	79	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2024-01-04-05** **Date: 11-11-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	7.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF FINE AGGREGATE

Date: 11-11-22

Lab ID	:	CP-2024-01-04-05
Project Name	:	Construction of Basavalingappa Samudaya Bhavana and Construction of Ambedkar Bhavan in Amruthahalli in ward no 07 (Call-7)
Agency	:	M/s Venkateshwara Asphalts and Concrete Mix, Prop. Umesh N, No:01, Ammaji Arcade, Bangaluru Circle, Hesaragahatta Main Road, Bengaluru 5600073
Customer's Reference	:	BBMP/EE/BTP/WO/66/2022-23
Date of Receipt	:	09-11-22
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	09-11-22
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	78	78	7.8	92.2	90-100	90-100	90-100	95-100
3	2.36 mm	65	143	14.3	85.7	60-95	75-100	85-100	95-100
4	1.18 mm	244	387	38.7	61.3	30-70	55-90	75-100	90-100
5	600 micron	215	602	60.2	39.8	15-34	35-59	60-79	80-100
6	300 micron	178	780	78.0	22.0	5-20	8-30	12-40	15-50
7	150 micron	141	921	92.1	7.9	0-10	0-10	0-10	0-15
8	Pan	79	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2024-01-04-05** **Date: 11-11-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	-
2	Specific Gravity	2.59	-
3	Material finer than 75 micron(%)	7.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF STEEL

Date: 10-11-22

Lab ID	:	CP-2024-01-04-05
Project Name	:	Construction of Basavalingappa Samudaya Bhavana and Construction of Ambedkar Bhavan in Amruthahalli in ward no 07 (Call-7)
Agency	:	M/s Venkateshwara Asphalts and Concrete Mix, Prop. Umesh N, No:01, Ammaji Arcade, Bangaluru Circle, Hesaragahatta Main Road, Bengaluru 5600073
Customer's Reference	:	BBMP/EE/BTP/WO/66/2022-23
Date of Receipt	:	09-11-22
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.
Date of test:	:	09-11-22

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500D	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500D	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500D	12	0.888	544	668	20.0%	Satisfactory	Satisfactory
4	Sunvik	Fe500D	16	1.581	572	674	19.0%	Satisfactory	Satisfactory
5	Sunvik	Fe500D	20	2.476	584	693	19.0%	Satisfactory	Satisfactory
6	Sunvik	Fe500D	25	3.472	597	712	18.0%	Satisfactory	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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BBMP, Bangalore

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Spectro Chemical Analysis, Physical, Non Destructive All Type of Metal Testing

D	:	CP-2024-01-04-05 **Date: 11-11-22**
et Name	:	Construction of Basavalingappa Samudaya Bhavana and Construction of Ambedkar Bhavan in Amruthahalli in ward no 07 (Call-7)
y	:	M/s Venkateshwara Asphalts and Concrete Mix, Prop. Umesh N, No:01, Ammaji Arcade, Bangaluru Circle, Hesaragahatta Main Road, Bengaluru 5600073
mer's Reference	:	BBMP/EE/BTP/WO/66/2022-23
of Receipt	:	09-11-22
le Type / Grade	:	Sunvik
of test	:	09-11-22

CHEMICAL ANALYSIS

No.	Chemical Contents	8mm	10mm	12mm	16mm	20mm	25mm	Max. Limits as per IS:1786-2008, Gr. Fe 500D
	Carbon (C) %	0.139	0.146	0.143	0.178	0.182	0.176	0.250 Max
2	Phosphor (P) %	0.030	0.028	0.032	0.026	0.031	0.035	0.040 Max
3	Sulphur (S) %	0.027	0.036	0.030	0.036	0.029	0.032	0.040 Max
4	Sulphur & Phosphorus %	0.062	0.050	0.068	0.063	0.059	0.064	0.075 Max

The above material confirms to ASI S S 304 with respect to elements analysed

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL REQUIREMENTS OF BRICKS

Lab ID : CP-2024-01-04-05 **Date: 06-12-23**

Project Name : Construction of Basavalingappa Samudaya Bhavana and Construction of Ambedkar Bhavan in Amruthahalli in ward no 07 (Call-7)

Agency : M/s Venkateshwara Asphalts and Concrete Mix, Prop. Umesh N, No:01, Ammaji Arcade, Bangaluru Circle, Hesaragahatta Main Road, Bengaluru 5600073

Customer's Reference : BBMP/EE/BTP/WO/66/2022-23

Date of Receipt : 30-11-23

Identification Mark on Brick : MTB

Reference to BIS codes : IS 1077 : 1992 (RA 2021) Common Burnt Clay Building Bricks-Specification
IS 3495 (Part 1 to 3) : 1992(RA 2019)
Method of Tests Burnt Clay Building Bricks
Part 1:Determination of Compressive Strength, (Cl 4.2.3)
Part 2:Determination of Water Absorption,(Cl 4.1.3)
Part 3: Determination of Efflorescence, (Cl 4)

Date of test : 30-11-23

COMPRESSIVE STRENGTH

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Failure Load (KN)	Compressive strength of individual bricks (N/mm^2)	Acceptablity as per IS 1077:1992, Clause 7.1
1	228.13	109.98	25090	206.7	8.2	The bricks shall have a minimum average compressive strength for various classes as given in Table 1 of IS 1077: 1992. The compressive strength of any individual bricks shall not fall below the minimum compressive strength specified for the corresponding class of brick by more than 15%.
2	228.98	108.62	24872	197.6	7.9	
3	231.01	107.99	24947	201.3	8.1	
4	230.11	107.54	24746	199.5	8.1	
5	228.16	106.98	24409	194.6	8.0	
Average of 5 bricks					8.1	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Lab ID : **CP-2024-01-04-05** **Date: 06-12-23**

WATER ABSORPTION:

Sl.No.	Dry Weight	Wet Weight	Water Absorption(%)	Acceptablity as per IS 1077:1992, Clause 7.2
1	2.975	3.265	9.7	The water Absorption of bricks shall not be more than 20% by weight upto class 12.5 and 15% by weight for higher classes.
2	2.868	3.176	10.7	
3	2.906	3.196	10.0	
4	2.976	3.275	10.0	
5	2.875	3.218	11.9	
Average Water Absorption(%)			10.5	

EFFLORESCENCE:

Sl.No.	Length (mm)	Breadth (mm)	Area (mm^2)	Efflorescence	Acceptablity as per IS 1077:1992, Clause 7.3
1	229.18	108.98	24976	Slight	The efflorescence shall not be more than "moderate" upto class 12.5 and "slight" for higer classes.
2	228.98	109.18	25000	Moderate	
3	228.18	108.39	24732	Slight	
4	230.19	107.98	24856	Moderate	
5	228.13	109.19	24910	Slight	

DIMENSIONS AND TOLERANCES

Sl.No.	Dimensions obtained for 20 bricks(mm)		Acceptability as per IS 1077:1992, Clause 6.2(b)
1	Length	4610	4520 to 4680 mm
2	Width	2185	2160 to 2240 mm
3	Height	1390	1360 to 1440 mm

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

) ID	:	CP-2024-01-04-05 **Date: 19/11/2022**
ject Name	:	Construction of Basavalingappa Samudaya Bhavana and Construction of Ambedkar Bhavan in Amruthahalli in ward no 07 (Call-7)
ency	:	M/s Venkateshwara Asphalts and Concrete Mix, Prop. Umesh N, No:01, Ammaji Arcade, Bangaluru Circle, Hesaragahatta Main Road, Bengaluru 5600073
stomer's Reference	:	BBMP/EE/BTP/WO/66/2022-23
te of Receipt	:	14-11-22
stomer ID	:	SF Column Concrete
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M25 / 7 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
te of test	:	19/11/2022

l. o.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	SF Column Concrete	M25	12/11/2022	19/11/2022	150.06 X 150.33 X 150.82	22559	8.178	414.1	18.4	18.1
2	SF Column Concrete	M25	12/11/2022	19/11/2022	150.14 X 150.02 X 150.61	22525	8.137	399.4	17.7	
3	SF Column Concrete	M25	12/11/2022	19/11/2022	150.65 X 150.52 X 150.60	22675	8.658	411.8	18.2	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2024-01-04-05 **Date: 10/12/2022**
ject Name	:	Construction of Basavalingappa Samudaya Bhavana and Construction of Ambedkar Bhavan in Amruthahalli in ward no 07 (Call-7)
ency	:	M/s Venkateshwara Asphalts and Concrete Mix, Prop. Umesh N, No:01, Ammaji Arcade, Bangaluru Circle, Hesaragahatta Main Road, Bengaluru 5600073
stomer's Reference	:	BBMP/EE/BTP/WO/66/2022-23
te of Receipt	:	14-11-22
stomer ID	:	SF Column Concrete
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M25 / 28 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
te of test	:	10/12/2022

l. o.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	SF Column Concrete	M25	12/11/2022	10/12/2022	150.38 X 150.42 X 150.90	22619	8.425	639.2	28.3	28.1
2	SF Column Concrete	M25	12/11/2022	10/12/2022	150.93 X 150.17 X 150.90	22666	8.246	635.1	28.0	
3	SF Column Concrete	M25	12/11/2022	10/12/2022	150.65 X 150.02 X 150.41	22600	8.277	636.3	28.2	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
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ject Name	:	Construction of Basavalingappa Samudaya Bhavana and Construction of Ambedkar Bhavan in Amruthahalli in ward no 07 (Call-7)
ncy	:	M/s Venkateshwara Asphalts and Concrete Mix, Prop. Umesh N, No:01, Ammaji Arcade, Bangaluru Circle, Hesaragahatta Main Road, Bengaluru 5600073
tomer's Reference	:	BBMP/EE/BTP/WO/66/2022-23
e of Receipt	:	14-11-22
tomer ID	:	SF Column Concrete
nple Type /Size	:	150X150X150 mm
nple grade/Age	:	M25 / 7 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
te of test	:	19/11/2022

L. o.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	SF Column Concrete	M25	12/11/2022	19/11/2022	150.97 X 150.99 X 150.92	22794	8.402	419.1	18.4	18.2
2	SF Column Concrete	M25	12/11/2022	19/11/2022	150.20 X 150.76 X 150.49	22644	8.433	410.7	18.1	
3	SF Column Concrete	M25	12/11/2022	19/11/2022	150.03 X 150.70 X 150.24	22609	8.646	411.7	18.2	

The results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

ID : CP-2024-01-04-05 **Date: 10/12/2022**

ect Name : Construction of Basavalingappa Samudaya Bhavana and Construction of Ambedkar Bhavan in Amruthahalli in ward no 07 (Call-7)

ncy : M/s Venkateshwara Asphalts and Concrete Mix, Prop. Umesh N, No:01, Ammaji Arcade, Bangaluru Circle, Hesaragahatta Main Road, Bengaluru 5600073

omer's Reference : BBMP/EE/BTP/WO/66/2022-23

of Receipt : 14-11-22

omer ID : SF Column Concrete

ple Type /Size : 150X150X150 mm

ple grade/Age : M25 / 28 Days Compressive Strength

erence to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

e of test : 10/12/2022

	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	SF Column Concrete	M25	12/11/2022	10/12/2022	150.17 X 150.11 X 150.23	22543	8.379	643.8	28.6	28.4
	SF Column Concrete	M25	12/11/2022	10/12/2022	150.81 X 150.95 X 150.48	22765	8.774	649.7	28.5	
	SF Column Concrete	M25	12/11/2022	10/12/2022	150.79 X 150.67 X 150.68	22721	8.785	638.5	28.1	

he results obtained are satisfactory as per standard requirements.

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Date: 19/11/2022

ID	:	CP-2024-01-04-05
ect Name	:	Construction of Basavalingappa Samudaya Bhavana and Construction of Ambedkar Bhavan in Amruthahalli in ward no 07 (Call-7)
ıcy	:	M/s Venkateshwara Asphalts and Concrete Mix, Prop. Umesh N, No:01, Ammaji Arcade, Bangaluru Circle, Hesaragahatta Main Road, Bengaluru 5600073
omer's Reference	:	BBMP/EE/BTP/WO/66/2022-23
of Receipt	:	14-11-22
tomer ID	:	SF Column Concrete
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M25 / 7 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
e of test	:	19/11/2022

	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	SF Column Concrete	M25	12/11/2022	19/11/2022	150.40 X 150.61 X 150.60	22651	8.664	403.3	17.8	17.9
	SF Column Concrete	M25	12/11/2022	19/11/2022	150.91 X 150.86 X 150.54	22765	8.789	399.4	17.5	
	SF Column Concrete	M25	12/11/2022	19/11/2022	150.65 X 150.62 X 150.51	22691	8.303	414.3	18.3	

The results obtained are satisfactory as per standard requirements.

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Date: 10/12/2022

ab ID	:	CP-2024-01-04-05
oject Name	:	Construction of Basavalingappa Samudaya Bhavana and Construction of Ambedkar Bhavan in Amruthahalli in ward no 07 (Call-7)
gency	:	M/s Venkateshwara Asphalts and Concrete Mix, Prop. Umesh N, No:01, Ammaji Arcade, Bangaluru Circle, Hesaragahatta Main Road, Bengaluru 5600073
ustomer's Reference	:	BBMP/EE/BTP/WO/66/2022-23
ate of Receipt	:	14-11-22
ustomer ID	:	SF Column Concrete
ample Type /Size	:	150X150X150 mm
ample grade/Age	:	M25 / 28 Days Compressive Strength
eference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
ate of test	:	10/12/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	SF Column Concrete	M25	12/11/2022	10/12/2022	150.03 X 150.38 X 150.82	22561	8.869	651.8	28.9	28.6
2	SF Column Concrete	M25	12/11/2022	10/12/2022	150.01 X 150.11 X 150.60	22517	8.326	634.1	28.2	
3	SF Column Concrete	M25	12/11/2022	10/12/2022	150.68 X 150.58 X 150.50	22690	8.729	649.0	28.6	

The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2024-01-04-05 **Date: 31/01/2023**

Name : Construction of Basavalingappa Samudaya Bhavana and Construction of Ambedkar Bhavan in Amruthahalli in ward no 07 (Call-7)

: M/s Venkateshwara Asphalts and Concrete Mix, Prop. Umesh N, No:01, Ammaji Arcade, Bangaluru Circle, Hesaragahatta Main Road, Bengaluru 5600073

ner's Reference : BBMP/EE/BTP/WO/66/2022-23

f Receipt : 26-01-23

ner ID : SF Roof Slab Concrete

e Type /Size : 150X150X150 mm

e grade/Age : M25 / 7 Days Compressive Strength

ence to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

f test : 31/01/2023

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
SF Roof Slab Concrete	M25	24/01/2023	31/01/2023	150.04 X 150.95 X 150.76	22648	8.459	414.5	18.3	17.8
SF Roof Slab Concrete	M25	24/01/2023	31/01/2023	150.74 X 150.12 X 150.03	22628	8.910	399.9	17.7	
SF Roof Slab Concrete	M25	24/01/2023	31/01/2023	150.45 X 150.23 X 150.03	22603	8.147	395.8	17.5	

results obtained are satisfactory as per standard requirements.

'Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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ID	:	CP-2024-01-04-05
ect Name	:	Construction of Basavalingappa Samudaya Bhavana and Construction of Ambedkar Bhavan in Amruthahalli in ward no 07 (Call-7)
ncy	:	M/s Venkateshwara Asphalts and Concrete Mix, Prop. Umesh N, No:01, Ammaji Arcade, Bangaluru Circle, Hesaragahatta Main Road, Bengaluru 5600073
omer's Reference	:	BBMP/EE/BTP/WO/66/2022-23
of Receipt	:	26-01-23
omer ID	:	SF Roof Slab Concrete
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M25 / 28 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
of test	:	21/02/2023

Date: 21/02/2023

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
SF Roof Slab Concrete	M25	24/01/2023	21/02/2023	150.43 X 150.89 X 150.27	22698	8.329	648.8	28.6	28.3
SF Roof Slab Concrete	M25	24/01/2023	21/02/2023	150.91 X 150.62 X 150.49	22731	8.393	637.0	28.0	
SF Roof Slab Concrete	M25	24/01/2023	21/02/2023	150.94 X 150.35 X 150.14	22694	8.535	640.9	28.2	

e results obtained are satisfactory as per standard requirements.

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL PRO BANGALORE Sig..... Date.....

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